

Type: R01 (AI47062) Period: 7/1/03 – 6/30/08

The purpose of this project is to develop standardized assays for the detection of T cell responses to HIV using flow cytometry. The specific aims are: (1) To optimize cytokine flow cytometry assays for CD4 and CD8 T cell responses and to correlate these with tetramer assays; (2) To characterize the HIV-specific responses of individuals at various stages of disease progression; and (3) To use cytokine flow cytometry to determine whether various vaccines induce specific CD4 and/or CD8 T cell responses.

Role: Co-investigator

Title: Immunological Correlates of Effective Immunization for Cancer Vaccines

Principal Investigator: Mary L. Disis, M.D.

Agency: National Cancer Institute

Type: U54 (CA-090818) Period: 7/1/01 – 12/31/06

The purpose of this project is to develop and test standardized assays for the detection of T cell responses to cancer antigens. The specific aims are: (1) To determine whether ELISPOT, cytokine flow cytometry, MHC class I tetramers, and/or antigen-specific antibodies can be used to predict effective immunization; and (2) To develop such promising novel technologies for clinical use and apply them in the monitoring of active cancer vaccine trials.

Role: Co-investigator

#### **EXHIBIT II. List of Publications**

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16. Maecker, H. T., M. S. Do, and S. Levy. 1998. CD81 on B cells promotes interleukin 4 secretion and antibody production during T helper type 2 immune responses. *Proc Natl Acad Sci U S A* 95: 2458-2462.
17. Levy, S., S. C. Todd, and H. T. Maecker. 1998. CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system. *Annu Rev Immunol* 16: 89-109.
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